Wbc4Crs
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<u>Purpose</u>
To format WOU and WCN message for play on CRS.

<u>Installation instructions</u>

1. Get the file: As user *fxa* on AWIPS, obtain the Wbc4Crs.tar.gz file and move it into a local applications directory on AWIPS. For the sake of example, I will use /awips/dev/localapps/WbcFormat.

2. Un-zip and un-tar the file Wbc4Crs.tar.gz.
      gunzip Wbc4Crs.tar.gz
      tar xvf Wbc4Crs.tar

      untarring this file should create the following files and sub-directories.

      Wbc4Crs.pl
      Wbc4Crs.csh
      Cafe2Wbc.pl
      Fips63.in
      config.wbc4crs.sample
      /temp
      /templates
      /output
      /test

3. Setting permissions: If the permissions are not already set correctly on the scripts, change them to
      chmod 755 Wbc4Crs.pl
      chmod 755 Wbc4Crs.csh
      chmod 755 Cafe2Wbc.pl

4. Migration of config file from CAFÉ: If you are already using the CAFÉ formatters to send the SAW/SLS product to CRS for initial tone alarm and notification of the warning, a utility has been provided that will take your settings in the config.sls file for CAFÉ and transfer them to the configuration file for Wbc4Crs (config.wbc4crs). If you do not wish to use the CAFÉ configuration file for config.sls as a starting point for config.wbc4crs, copy the file config.wbc4crs.sample to config.wbc4crs and skip to step 5.

This utility is called, Cafe2Wbc.pl. To use it, open up Cafe2Wbc.pl and make the following modifications,

In the first section of the code labeled "Adjust these variables" change,

$CafeConfigDir="…..";
$Wbc4CrsConfig="…..";
$Node="…..";

to the appropriate values. The CafeConfigDir variable is the directory that your configuration file (config.sls) is located in (i.e. /home/CRS/SLS/). The Wbc4CrsConfig variable is the directory that you installed Wbc4Crs in (i.e. /awips/dev/localapps/WbcFormat/). Node is the 3-letter id of your office (in all caps) that will be placed at the beginning of the CRS pil (i.e. MCISVACRL).

Once these modifications have been made, run the Cafe2Wbc.pl script.
./Cafe2Wbc.pl

A new file called config.wbc4crs will be created when this script completes.

5. Configuration. Open the config.wbc4crs file in your favorite editor. Below are definitions of each of the configurable elements. Even if you migrated your configuration file over from CAFÉ, you will want to look through the new file, to make sure the settings are correct for your office. In particular, the time zone settings and the interrupt/alarm settings.

PROCESS= A value of Y for PROCESS means that processing will be done. A value of N for PROCESS means that processing will NOT be done.

PROCESS_WOU= A value of Y for PROCESS_WOU means that processing will be done on the WOU when it is triggered. A value of N for PROCESS_WOU means that processing will NOT be done. This setting will depend on your office and the location of your NWR transmitters. If you have NWR transmitter areas that include counties from CWAs other than your own you will likely want to process the WOU product for NEW watches rather than all of the individual WCN products from surrounding offices. If this is the case, and PROCESS_WOU is set to Y and VTEC coding with NEW that appears in a WCN message will be disregarded. If all of your NWR transmitter areas are within your CWA boundaries you will probably want to set this N, and process exclusively off from the WCN messages your office issues. If PROCESS_WOU is set to N, all VTEC coding with NEW in a WCN will be processed.

NODE= The node that will appear on the product going to CRS. For example, in MCISVACRL, the node would be MCI.

TOWERS= The CRS transmitters at your office. Please note the additional entry of the time zone, a Y or N for daylight savings time, and the number of hour UTC time is offset from the time zone in LST
For Eastern Time this value would be EY5
For Central Time this value would be CY6
For Mountain Time this value would be MY7
For Pacific Time this value would be PY8

The correct order of the values should be transmitter id...transmitter name...time zone...count codes Please see CAFE config.sls for additional details

 ACTIVE= A or I or X or C: If A, the product will be active when sent to
 CRS. If I, the product is inactive (not recommended). If S, the product will
 be sent to the Synthetic Speech Override window. If C, the message will be
 output in concatenated voice with the option to not use it in the SSO window.

 SEND TO CRS= Y or N: This will usually be Y. However, for testing purposes you
 may want to set as N. If N, the formatted file will be sent to the   NWRBrowser as a delayed file
and will remain there until you delete it or send it on to CRS using the Send button. If Y, the
formatted file will be sent to CRS with a copy sent to the the NWRBrowser as a Sent file.

 ALARM/INTERRUPT TYPES The ALARM/INTERRUPT settings are based on the type of
VTEC coding that is used in the product. There are currently five different VTEC codes for
which these values can be set. NEW - New watches, CAN - A cancelled watch, CON - A
continued watch, EXA - A watch expanded geographically, EXT - A watch extended in time,
 Each on of these VTEC types has a setting for alarm and interrupt. You can use either Y or N
 Y indicates that you wish for the product to tone alarm or interrupt, and N indicates that you do
NOT wish for the product to tone alarm or interrupt.

6. Modification to Wbc4Crs.csh:
One line 19 of Wbc4Crs.csh the directory that you are running the Wbc4Crs.csh script is
specified. This will probably need to be changed to the local directory that you are running the
script from.

set nwr_dir="/awips/dev/localapps/WbcFormat"

There should be no closing "/" at the end.

7. Setting up the triggers. The final step is to set up the appropriate triggers to process the
WOU and WCN products upon receipt into your text database. On ds1 as user fxa, go to
/data/fxa/siteConfig/textApps. The file siteTrigger.template contains local additions to the
trigger file. Modify this file to add entries for the WOU and WCN products. The entries will
look something like this,

STLWOU0 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU0
STLWOU1 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU1
STLWOU2 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU2
STLWOU3 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU3
STLWOU4 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU4
STLWOU5 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU5
STLWOU6 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU6
STLWOU7 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU7
STLWOU8 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU8
STLWOU9 /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWOU9
STLWCNEAX /awips/dev/localapps/WbcFormat/Wbc4Crs.csh STLWCNEAX

You may also wish to add a line for any WCN messages from surrounding offices that may have counties in your NWR listening area. Please note, if you specified the variable PROCESS_WOU as N in the config.wbc4crs file you will not need to have any of the WOU entries in the trigger file.

Finally run a –trigger localization on ds1 as user fxa to implement the changes on ds1.

8. Modifying the templates: Also included in the distribution are 5 templates located in the templates sub-directory. There is one template for each of the VTEC types: NEW, CAN, CON, EXA, and EXT. The templates allow for variation in wording depending on office preference. Below is an excerpt from the NEW.tmpl file,

<BEGIN MAIN>
The National Weather Service has issued !!WatchType!! number !!WatchNumber!!, in effect until !!Expiration!!, for the following counties in the listening area,
<END MAIN>
<BEGIN SEVERE CTA>
A severe thunderstorm watch means conditions are favorable for severe weather in and close to the watch area. Persons in these areas should be alert for threatening weather conditions, and listen for later statements and possible warnings.
<END SEVERE CTA>
<BEGIN TORNADO CTA>
A tornado watch means conditions are favorable for severe weather in and close to the watch area. Persons in these areas should be alert for threatening weather conditions, and listen for later statements and possible warnings.
<END TORNADO CTA>

Each template will have three sections, MAIN, SEVERE CTA, and TORNADO CTA. In the MAIN section, you can place wording introducing the watch type, watch number and expiration date/time. To insert these variables, simply place the identifiers !!WatchType!!, !!WatchNumber!!, and !!Expiration!! in the appropriate places in each sentence. Be sure to include the !! on each end of the string. These indicate that words inside, along with the !! will be replaced when the product is processed.

The next two sections are just call to actions for each of the watch types. If you don't want any call to actions in the CRS product, simply the line blank between the BEGIN and END tags. (See CAN.tmpl for an example).

9. Testing the script: A mechanism has been placed in the script to run the script in test mode if that is desired. When running the script from the command line you can specify a filename to process as the first argument and the word "test" as the second argument.

./Wbc4Crs.csh /awips/dev/localapps/WbcFormat/WCNEAX.txt test

When the script is run in this way, nothing will be sent to CRS and the output files will be written to the test sub-directory off from the main installation directory.

If the word *test* is not specified in the second argument, then active mode will be assumed and products will be sent to CRS if the SEND TO CRS variable is set to Y. If the SEND TO CRS variable is set to N, then the formatted products will be copied to the CRS pending directory. In addition, a query will be done of the text database of the first argument to create a text file of the specified product. In most cases, you will want to run the script without *test* in the command line when you use it in your trigger file.

One final word about testing. Any WCN or WOU product with a /T at the beginning of the VTEC string will not be processed. These are considered test products and are thrown out when processing is attempted.